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Anne H. H. Ngu, Quan Z. Sheng, Du Q. Huynh, Ron Lei

April 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 4

Publisher: Springer-Verlag New York, Inc.

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The optimized distance-based access methods currently available for multidimensional indexing in multimedia databases have been developed based on two major assumptions: a suitable distance function is known a priori and the dimensionality of the image features is low. It is not trivial to define a distance function that best mimics human visual perception regarding image similarity measurements. Reducing high-dimensional features in images using the popular principle component analysis (PCA) mi ...

Keywords: High-dimensional indexing, Image retrieval, Neural network

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D. J. Cox

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